



NAVAIR DMSMS Branch



DMSMS/OBSOLESCENCE STUDIES- IDENTIFYING RESOURCES TO MITIGATE THE IMPACT OF OBSOLESCENCE

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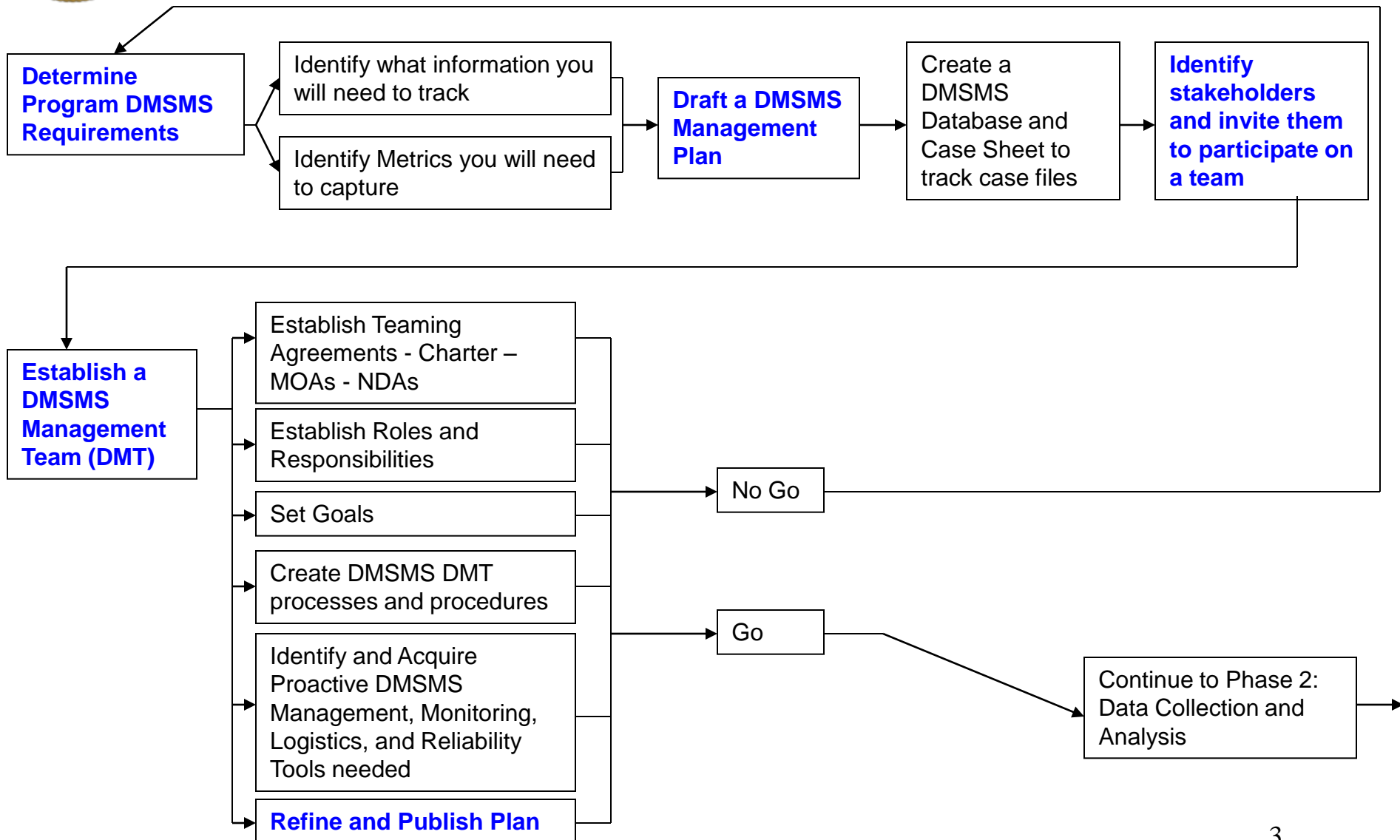
Overview



- **DMSMS 3 Phased Process**
- **Bill of Materials (BOM)**
- **DMSMS Tools Utilization**
- **Summary**

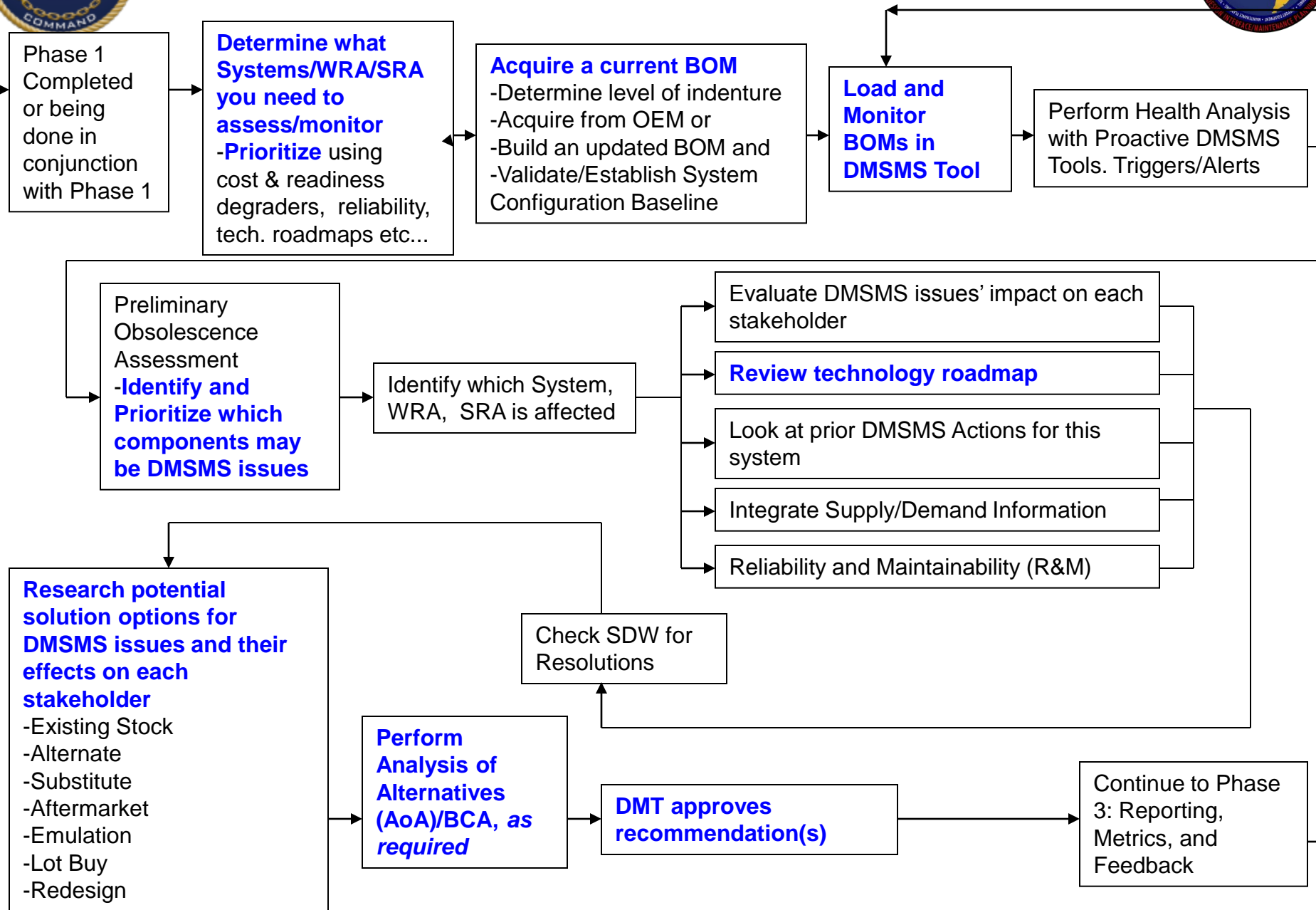


Phase 1 – Program Establishment:



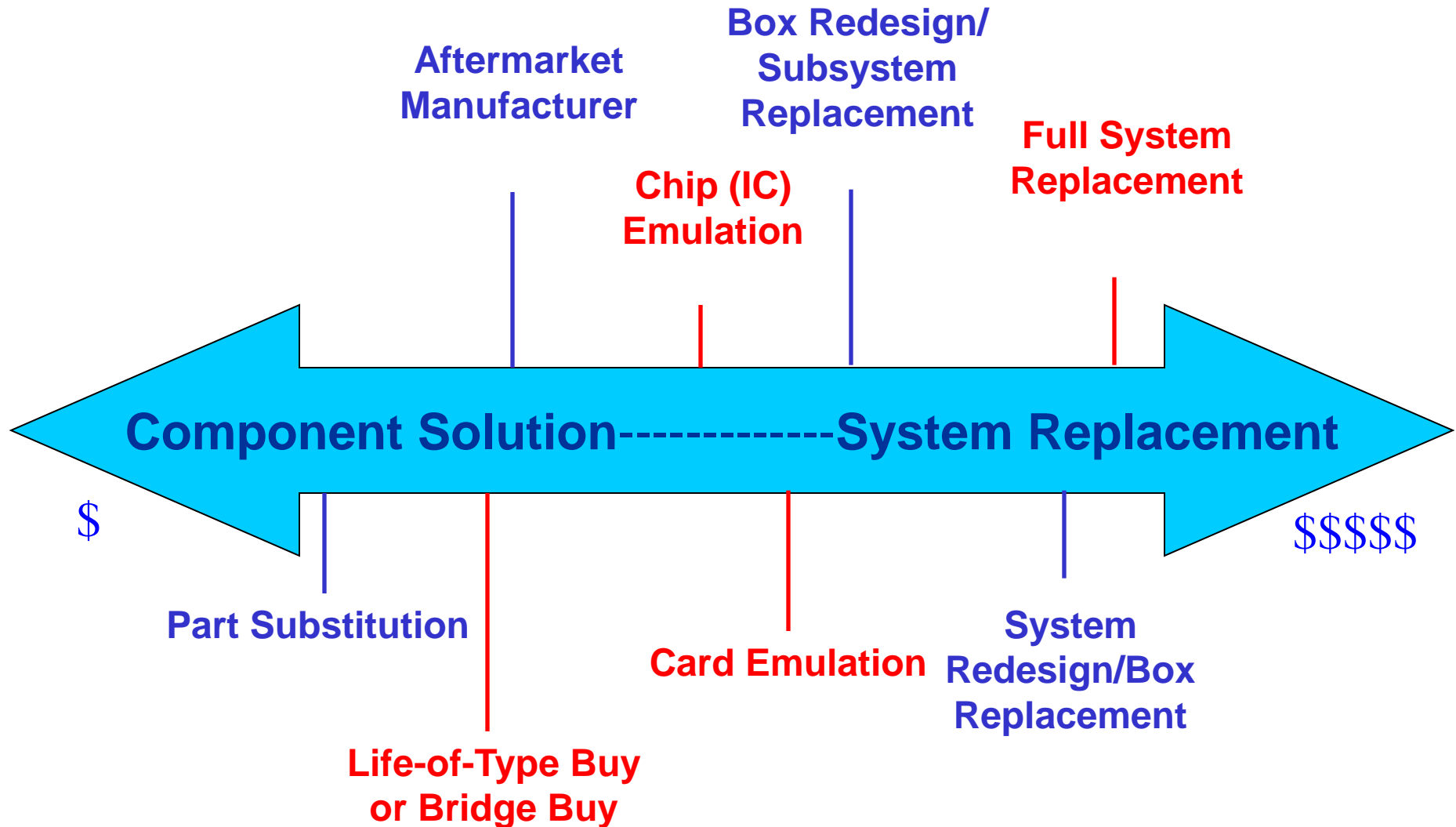


Phase 2 – Data Collection and Analysis:



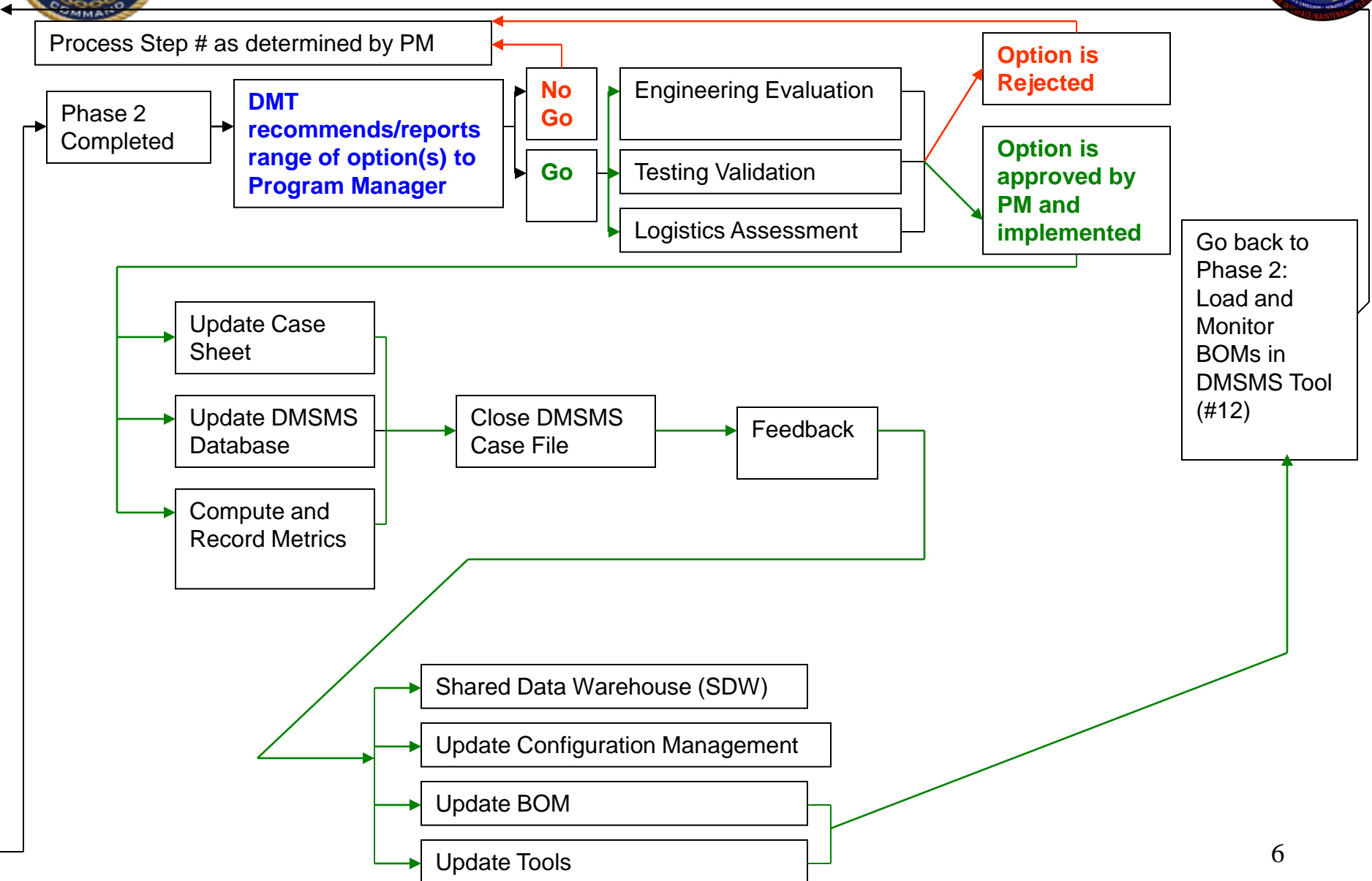


Possible Options





Phase 3 – Reporting, Metrics, and Feedback:





Bill of Materials (BOM)

- Indentured BOM
 - Displays Next Higher Assembly, Sub-assembly and Components level
 - Easy to trace total parts quantity used in the system/box. Helps build strong cases for overall redesign efforts/decisions
- Flat BOM
 - A list of part numbers (no indenturing structure)
 - Common type of BOM received from OEMs and Suppliers when requested



Indentured Systems

Level 0: System



Level 1: WRA/LRU/Box



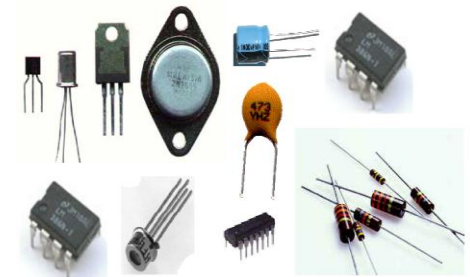
Level 2: SRA/SRU/Module/Board



Level 3: CCA/SSRA



Level 4: Component





Indentured BOM sample

E11							
	A	B	C	D	E	F	G
1	Internal Part Number	Indenture Code	Part Number	MFR Name	Qty per BOM		
2	AlphaIndCodeTop	AA	AlphaIndCodeTop		1		
3	AlphaIndCodeL1-SA1	BB	AlphaIndCodeL1-SA1		1		
4	100-15605	CC	AS7C25512PFD32A-133BC	Alliance Semi	1		
5	100-15606	CC	AS7C25512PFD32A-166BC	Alliance Semi	1		
6	100-10855	CC	AS7C31025B-12JC	Alliance Semi	5		
7	100-15653	CC	AS7C33256NTF32A-75TQC	Alliance Semi	1		
8	100-15654	CC	AS7C33256NTF36A-75TQC	Alliance Semi	1		
9	100-15652	CC	AS7C33256NTF36A-75TQI	Alliance Semi	11		
10	100-15604	CC	AS7C332MFT18A-85BC	Alliance Semi	1		
11	100-15665	CC	AS7C332MNTD18A-133TQC	Alliance Semi	1		
12	100-15664	CC	AS7C332MNTD18A-200TQI	Alliance Semi	1		
13	100-15655	CC	AS7C33512NTF18A-75TQC	Alliance Semi	2		
14	100-15640	CC	AS7C33512PFS18A-133TQI	Alliance Semi	1		
15	100-15602	CC	ASM3P2579AF-08TR	Alliance Semi	1		
16	100-15603	CC	ASM3P2579AF-08TT	Alliance Semi	1		
17	100-15598	CC	ASM3P2869AF-060R	Alliance Semi	3		
18	100-15599	CC	ASM3P2869AF-08TT	Alliance Semi	3		
19	100-15601	CC	ASM3P2969AF-08TR	Alliance Semi	1		
20	AlphaIndCodeL1-SA2	BB	AlphaIndCodeL1-SA2		2		
21	100-15666	CC	CS321613-R33K	Bourns	54		
22	AlphaIndCodeL1-SA3	BB	AlphaIndCodeL1-SA3		1		
23	100-15657	CC	EZ1082CT-2.5T	Semtech	1		
24	100-15658	CC	EZ1083ACTT	Semtech	1		
25	100-15587	CC	EZ1083CTT	Semtech	1		
26	100-15588	CC	EZ1084ACTT	Semtech	1		
27	100-15589	CC	EZ1084CT-3.3T	Semtech	1		
28	100-15590	CC	EZ1084CTT	Semtech	1		
29	100-15591	CC	EZ1085BCTT	Semtech	1		
30	AlphaIndCodeL2-SA1	CC	AlphaIndCodeL2-SA1		3		
31	100-15672	DD	LM4040BIM3-3.0	Maxim	4		
32	AlphaIndCodeL2-SA2	CC	AlphaIndCodeL2-SA2		1		
33	100-15667	DD	MAX1488ECSD+T	Maxim	2		
34	100-15636	DD	MAX3070EASD+T	Maxim	3		
35	100-15637	DD	MAX3070EESD+T	Maxim	3		
36	100-15638	DD	MAX3071EESA+	Maxim	1		
37	100-15639	DD	MAX3072EESA+	Maxim	1		
38	100-15631	DD	MAX3075EESA+T	Maxim	1		
39	100-15632	DD	MAX3076EESD+	Maxim	1		
40	100-15633	DD	MAX3078EESA+	Maxim	12		
41	100-15634	DD	MAX3079EASD+	Maxim	5		
42	100-15635	DD	MAX3079EESD+T	Maxim	3		
43	100-108255	DD	MAX4145EEE+	Maxim	1		
44	100-15595	DD	MAX481CSA+T	Maxim	5		
45	100-15592	DD	MAX483ESA+	Maxim	1		
46	100-15593	DD	MAX485ESA+	Maxim	1		
47	100-15594	DD	MAX488CSA+T	Maxim	5		
48	100-15623	DD	MAX5904ESA+	Maxim	1		
49	100-15622	DD	MAX5904ESA+T	Maxim	1		



DMSMS Research Tools

- Government Tools
 - Great use for parts with NSNs to obtain logistics data, vendors/suppliers info, stock inventory...
- Industry Predictive Tools
 - Used to obtain manufacturer status for active and passive components. Some display inventory for DLA managed items of supply, as well as aftermarket sources, alerts, etc...



Logistic Tools

- Haystack has FLIS data and hyperlinks connected other tools/databases
 - Batch load capabilities are useful for retrieving NSNs that tie to part numbers

Database Reports About Help

DETAILS/SUMMARY NSN: 3040-01-208-9506 TAILOR QUICK REPORT

This NIIN was also found in the following databases

ProH Tech Char CTFD MOE I & S Govt Sol

Related NIINs
[Freight Data](#)
[Packaging Data](#)
[CTDF/WPS](#)
[QPD](#)

[ILSmart](#)
[Capabilities](#)
[DRMS](#)
[DOD EMAIL](#)
[NIIN/FLIS Images](#)
[Mnfg Drawings](#)
Next Higher Assembly
Parts List
Cancelled NSNs
NFTD

ARIL
LIRSH
GSA (external)
HMDF
MSDS

[US Army AMDF](#)
[US Army SB700](#)
[US Army Tech. Manuals](#)
USAF D200F
USAF D043
USAF D049
USAF ITIES
USAF MSD
USAF SNUD

USN APL/AEL
USN CRF
USN MRIL
USN NICN To NIIN
USN NMDF
USN SPMIG
USN WUC
USN P2300/10/30 (NHA)
USN WUCS3
USMC SL6-1
USMC SL6-2

Prev NSN Next NSN

FLIS HEADER (SEGMENT A)														
Item Name		HUB,BODY												
INC	FIIG	CRIT	ISC	Status	TIIC	RPDMRC	ADP	DEMIL	DEMIL Int. Code	HMIC	ESDEMI	PMI	HCC	Assign. Date
27782	A523Y0	X	5	0	4	3	0	A		II		A		1985 / 141

MASTER CROSS REFERENCE LIST (MCRL)													3 RECORDS	
	Part No.	RNIC	RIVC	RIIFC	RIIJC	RIISC	RIIAC	SADC	DAC	HCC	MSDSID	CAGE	Name	
	11829282	3	2				AX		A			19200	U S ARMY ARMAM	
	1979680	5	2				AX		E			0BFZ5	UNISYS CORP	
	1979680	5	9				AX		E			24900	LOCKHEED MARTI	



Logistic Tools (cont'd)

- HAYSTACK integration with databases makes APL/AEL available online.
 - These part lists can be used to build BOMs

Database	Reports	About	Help
ALLOWANCE	FLIS/TIR		
Enter search criteria	Procurement History	to replace multiple characters, or underscore (_) to replace a single character.	
	Vendor/CAGE (H4/H8)	RIC/APL/AEL <input type="text" value="002730001"/>	NSN/NIIN <input type="text"/>
	Other Databases	Nomenclature Keywords <input type="text"/>	
	Electronic Components	CAGE <input type="text"/>	Part Number <input type="text"/>
		Additional Plan Number <input type="text"/>	
	US Air Force	Pub/Man <input type="text"/>	Except MAPL
	US Army	<input type="text"/>	MAPL Only
	US Navy	ber <input type="text"/>	
	US Marine Corps	ber <input type="text"/>	
		me <input type="text"/>	
Maximum number of results (smaller limit recommended)	Super Search		
	Visual Search		
	Acronym Search		
		<input type="button" value="Advanced Search"/> <input type="button" value="APL Batch"/>	
Copyright Privacy Policy	Database Status		
	TSP Tools		



Logistic Tools (cont'd)

ILSmart is a subscription tool useful for finding inventory availability for parts.



[Logout](#) | [Contact Us](#) | [Help](#) | [Training](#) | [ILS Tools](#)



1-Click Locator

ILS Exchange

Market Intelligence

My ILS

Additional Services

Keyword Search

Search

Keyword Search Tips

Search Results

Parts Availability (3)

MRO Capability

Government Data (1)

APLs

Mfg Part Numbers (0)

NIINs (0)

APLs (0)

CAGE

Message Broadcast

Supplier Directory

Parts Stats & Pricing (2)

PMA

ADs

Unapproved Parts

Stolen Parts

Parts Availability Results

Create RFQ

Print

New Search

Export

Want supply and demand plus pricing for part? [Click Here](#)

Sort By: [Accredited Vendor](#)

Item View

Supplier View

Always show condition codes: ☒ NE ☒ NS ☒ OH ☒ SV ☒ AR

<input type="checkbox"/> Part No	Alt Part No	QTY	Cond	Description
Item 01 11829282				Results: 3
ILS Market - Updated No Less than Monthly				
Century Components Corp (AXRX) Phone: 1-817-831-8301 Fax: 1-817-831-8344				
<input type="checkbox"/> 11829282	3040-01-208-9506	6	NE	HUB,BODY
Burhan Agencies (BQYG) Phone: 1-FAX OR EMAIL Fax: 1-661-451-5237				
<input type="checkbox"/> 11829282	3040-01-208-9506	9	NS	HUB,BODY
<input type="checkbox"/> 3040-01-208-9506		9	NS	HUB,BODY HUB,BODY

Want supply and demand plus pricing for part? [Click Here](#)

Create RFQ

Print

New Search

Export

Page 1 of 1



Logistic Tools (cont'd)

DoD EMALL - Online shopping portal where you can order parts using MILSTRIP or government credit card. Contains information of other activities using the common part. Multiple parts search capability

Unclassified / For Official Use Only

1st Choice Support for the Warfighter
(Federal Buyers Welcome Tool!)

My Account | Help Desk | Logout

<https://dod-emaill.dla.mil>

Shop | Carts | In Checkout | Orders | Tools | Reports

Catalog Search | Power Search | Product Comparisons | Specialty Stores

» Home » Shop » Search » View Results

As MYDODEMALL1, you will be logged in for 44:50

Region/Special Codes: Country: UNITED STATES Postal Code: 20670 DODAAC: N00421

Cart Summary: Line Count: 3 Sum Total: \$837.12

Change Corridor

All of DOD EMALL

Start A Search

Keywords

NSN/Item Number
3040012089506

Equals

Refinements

☒ Keep ☐ Discard

Clear Search

Refine Your Search

Power Search Refinements

By Category

All NSNs
Federal Catalog System

Current Search:

NSN/Item #(): 3040012089506 in Corridor: All of DOD EMALL

Search History: 1

Products Found (1):

Sort By: Search Ranking

HUB,BODY

Category: HUB, BODY
Supplier: DLA
Mfr. Part #: 11829282
NSN: 3040012089506
Unit of Issue: Special Requirements Each

\$15.03 EA

CC MIL

In Stock: 682
Days ARD: Std
Depot Shpg

WADO

Sort By: Search Ranking



Logistic Tools (cont'd)

- Government-Industry Data Exchange Program (GIDEP)
 - Manufacturing part statuses/ alert notifications
 - Counterfeit reports
 - SOS/UDR services

[GIDEP Main Menu](#) | [Help](#) | [Log Out](#)

GIDEP database

Part Identifier Results

Part Set Information can be viewed by clicking on the appropriate Part Identifier link below. Document text and images can be viewed by clicking on the appropriate Document Number link below.

PART IDENTIFIER	DESIGNATOR	CE DATE	DOCUMENT DATE	DOCUMENT
XC2V6000-5BF957I	DS	19-MAY-2011	18-MAY-2011	X1-D-11-0524A
XC2V6000-5BF957I	PC	16-MAY-2006	15-MAY-2006	X1-C-06-717

[DEFINITIONS](#)



GIDEP (cont'd)

From: c6@gidep.org
To: Phan, Vinh H. NAVAIR 4.5.3.2
Cc:
Subject: SOURCE OF SUPPLY

You receive this GIDEP message according to your registration for UDRs [SOS or RFI]. To unsubscribe, please use the on-line forms at <https://members.gidep.org/services/pushmail/pushmail.htm> and uncheck the selection for this list. You also can contact the GIDEP Help Desk at 951.898.3207, or by email at <mailto:roster@gidep.org> and request to be removed from the list.

If you have any information DIRECTLY APPLICABLE to this request, please respond to the on-line response-form provided via this link:

<https://gidep-data.gidep.org/cgi-bin/uncgi/key.find?243473>

3. DATE: 13 JULY 2010
4. SUBJECT CATEGORY: SOURCE OF SUPPLY REQUEST FOR POTENTIOMETER,
DIGITAL

5. TYPE OF DATA NEEDED:

TEST
DESIGN
METROLOGY
FAILURE RATE
FAILURE EXPERIENCE
X SOURCE OF SUPPLY
FAILURE MODE
SPECIFICATION
METHODOLOGY
MAINTENANCE
OTHER:

6. COMPONENT/PART/MATERIAL/TEST EQUIPMENT/PROCESS DESCRIPTION:

SOURCE OF SUPPLY DATA INFORMATION NEEDED: SPECIFIC PART

SOURCE OF SUPPLY REQUEST FOR OBSOLETE MAXIM IC POT DIGITAL 1-WIRE 100K 6TSOC.

REQUEST EXPIRATION DATE: 11 OCTOBER 2011

7A. MANUFACTURER: MAXIM/DALLAS
7B. MANUFACTURER CAGE CODE: NOT AVAILABLE

8A. MANUFACTURER PART NUMBER: DS2890P
8B. PART QUANTITY: 1000 PCS



Predictive Tools

- Web based
- Spec sheets
- Manufacturer statuses mainly for passive and active components
- BOM management/monitoring
- Ad hoc report capability
- Alert notifications
- Out-year component life cycle prediction
- Systems health



Predictive Tools (cont'd)

User: Vinh Phan Home | **Manage & Import** | Exceptions | Summary | Details | Alerts | Reports | Where Used | Preferences | Log Out | Help

BOM Summary BOM Summary List BOM Tree Details

Tree Find BOM **Find**

Selected BOMs

 ☒ Selected

BOM Name	RADAR SET COMPUTER	
Total	700	
Not Matched	376	
Unknown	78	
Total Not in Prod (Disc)	11	
Unique Not in Prod	9	
Unique Not in Prod With Alts	5	
Unique Not in Prod With Out Alts	4	
Total EOL	0	
Unique EOL	0	
Total in Prod	235	
Unique in Prod	158	
Single Active Mfr (SS)	76	
Multiple Active Mfrs (MS)	82	
Total Consult Mfr	0	
Unique Consult Mfr	0	
Assembly Health Score	100	
RoHS Non-Compliant	87	
Lead(Pb) Free	1	
Modified Date	28-Jul-2011 12:56:39	
BOM Path	3.0 > RADAR SET	
	COMPLETED	



Predictive Tools (cont'd)

Integrated with other tools/databases to report counterfeiting

Results: Part Number	Documents	Details	Environmental	Compare	Transfers	Mfr Info	Alerts	Life Cycle	Export
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Part Number: AM79C874VF **Mfr Name:** AMD **PS:** D Print Preview

End Of Life

Alert Number	LTB Date	LTD Date	Information Source	Alert/Prediction Date
1885160305	20-Jun-2010	19-Dec-2010	MANUFACTURER	17-Dec-2009

Product Change Notices

Alert Number	Number	Description	Type	Issue Date	Implementation Date	Code	Alert Information Source
1782559235	2815	QUALIFICATION OF ASE TAIWAN (ASET) FOR TEST, MARK AND PACK OF AMD'S NETWORKING PRODUCTS	PRODUCT CHANGE NOTIFICATION	11-Jun-2008	06-Oct-2008	AMDIN00110	MANUFACTURER
2145659453	2686	CHANGE OF PRINTING ON AMD BOXES	PRODUCT CHANGE NOTIFICATION	15-Dec-2006	15-Mar-2007	AMDIN00088	MANUFACTURER

Failure Notices

Alert Number	Number	Problem Description	Action Taken/Planned	Mfr Issue	Batch/Serial Number	Alert Information Source
1821252801	AVF-A-11-031	PARTS HAVE BEEN RESURFACED AND REMARKED	CUSTOMER INFORMED ABOUT THE PART BEING COUNTERFEIT	30-Nov-2010	0817	GIDEP
1824049856	20110428-02	COUNTERFEIT NOTICE-SUSPECTED COUNTERFEIT OR HIGH RISK PART ALERT		28-Apr-2011		ERAI
1822268881	20110110-02	COUNTERFEIT NOTICE-SUSPECTED COUNTERFEIT OR HIGH RISK PART ALERT		10-Jan-2011		ERAI



Conclusion

- No “*One Stop Shop*” DMSMS tool for all part type researches
- No DMSMS predictive tool developed for mechanicals to date
- Utilize government tools for logistic data
- Explore the organic capabilities/availability within DoD



Questions???

